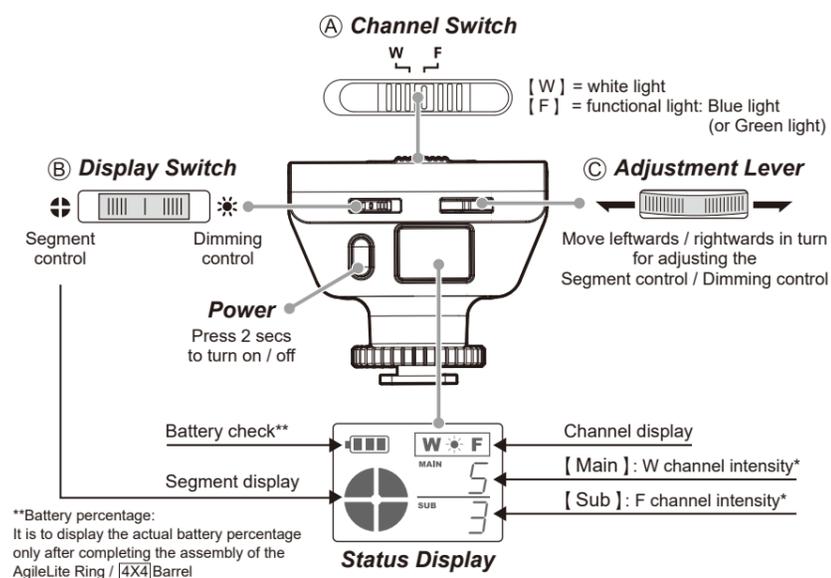


X-Loupe® AgileLite System User Guide 2022

About this product

The main component of AgileLite system include 1 control unit: X-Core (or X-Core Plus); 2 4X4 (or 4X4 Plus) Barrel; 3 AgileLite Ring; 4 AgileLite Box; all the main component come with a ring magnet mount, is easily and quickly used in combination with camera. For more information and downloading this manual, please visit our website at www.x-loupe.com. Please read the copyright declaration prior to the usage of any part of the content in this booklet.

X-Core (Plus) Control unit

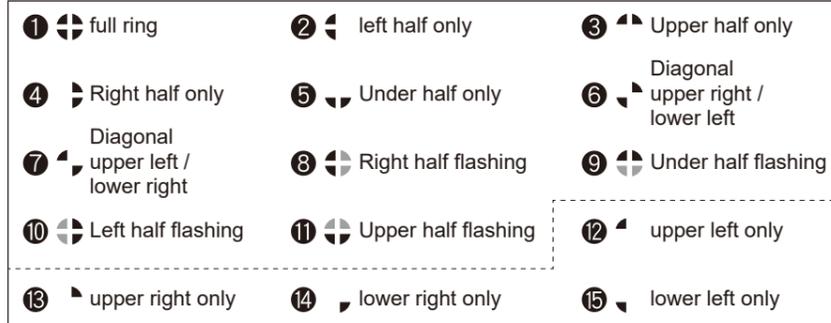


Illumination setting

Step1 switch the (A) [Channel Switch] to [W] for white light / inner circle
 [F] for functional light / outer circle

Step2
Segment Control Setting
 Set the (B) [Display Switch] to [⬆], move (C) [Adjustment lever] leftwards / rightwards, in turn to change the lighting position by quadrant order; lighting modes are shown in turn as below.

Dimming Control Setting
 Set the (B) [Display Switch] to [⚡], move (C) [Adjustment lever] leftwards / rightwards, in turn to regulate the lighting intensity.

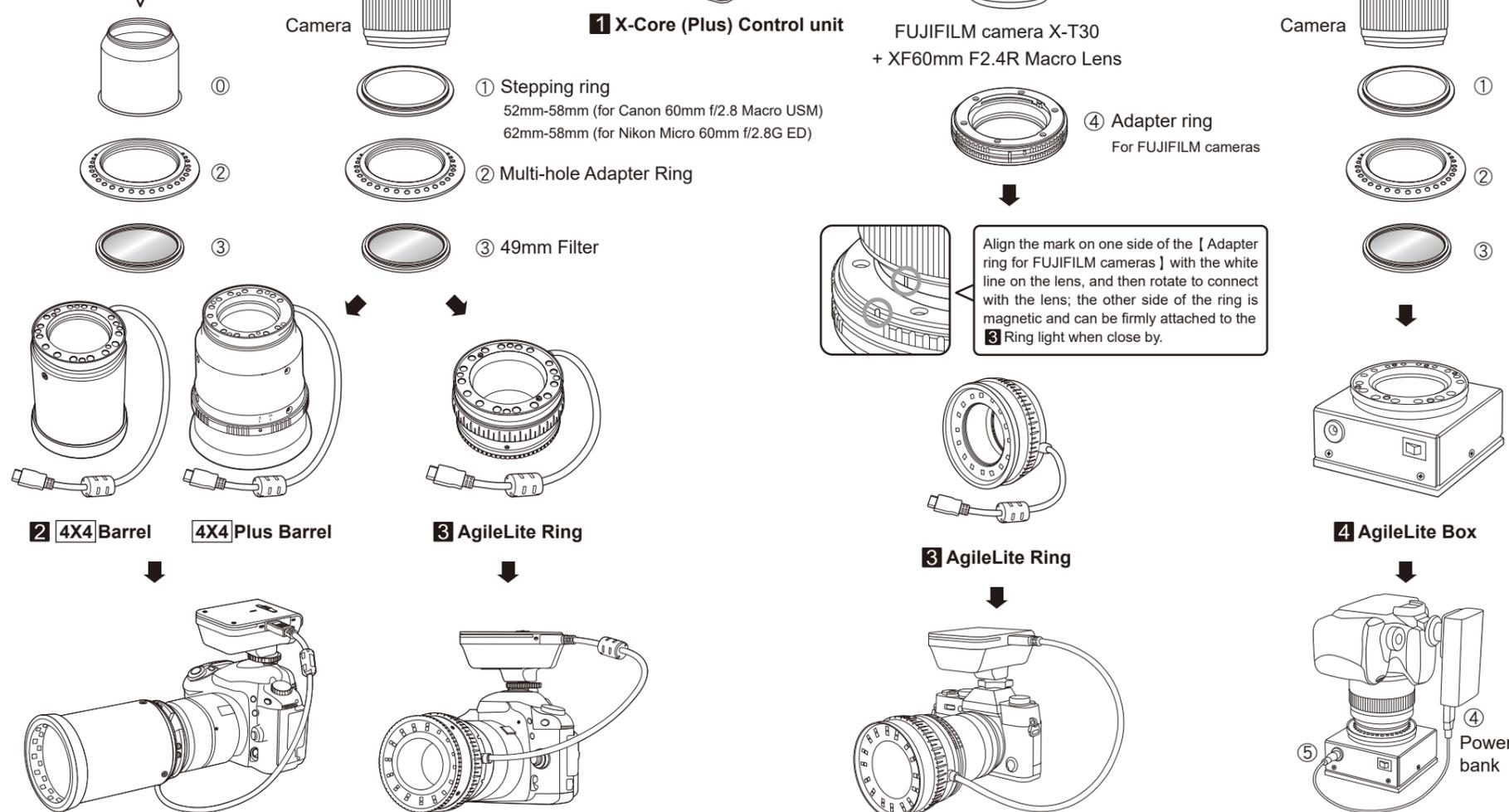


- [Notice]:**
- 8~11 are on the mode of 1:2 brightness ratios, the blink indicates the brightness is lower.
 - lighting mode in use: X-Core with 11-segment lighting modes (1~11)
 X-Core Plus with 15-segment lighting modes (1~15)
 - *Dimming intensity: X-Core: 1~100% with 5-step dimming
 X-Core Plus: 10~100% with 10-step dimming

Product parts and assembly diagram

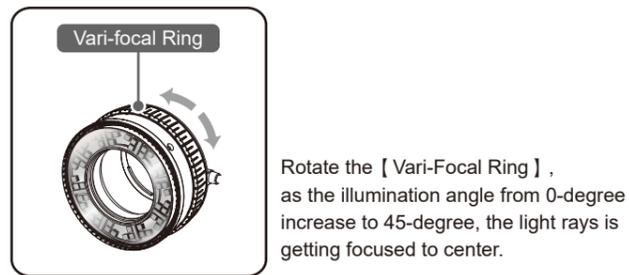
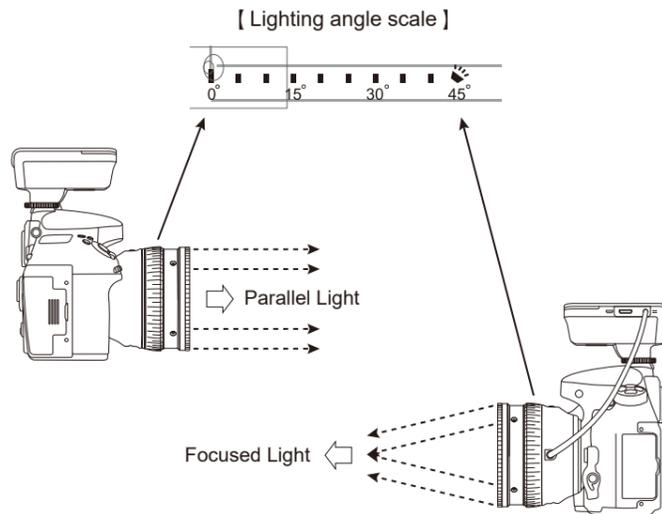
Note: For Canon or Nikon APS-C camera and 60mm macro lens only

① Extension tube (used for Canon)
 Note: if using Canon camera but want to get 4X4 cm FOV, Please combine ①, ②, ③ (instead of ①, ②, ③)



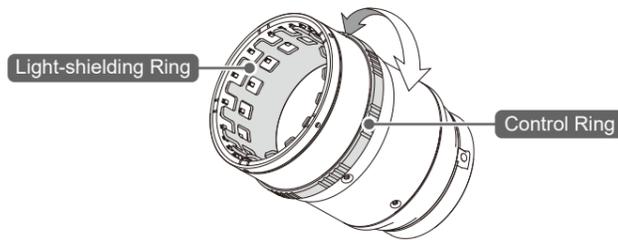
	2 4X4 (4X4 Plus) Barrel	3 AgileLite Ring	4 AgileLite Box
Assembly	1 Take the camera, mount ①, the Stepping ring on the camera lens port, and sequentially combined ②, Multi-hole Adapter Ring and ③, the 49mm filter together. Rotate in clockwise direction to tighten.		
	2	Mount the X-Core (Plus) to camera accessory shoe, and screw the locking ring in clockwise direction to tighten.	Make the part combined in step 1 directly attach to the AgileLite Box, it will be firmly attached with the magnetic power by the ring magnet mount on the Box end.
	3	Put the camera assembly directly connect to the end of 4X4 (4X4 Plus) Barrel / AgileLite Ring; it will be firmly attached with the magnetic power by the ring magnet mount on the barrel end.	Mount ④ ASUS Zenpower to camera accessory shoe, and screw the locking ring in clockwise direction to tighten.
	4	Connect the charge-only sync & charge cable on 4X4 (4X4 Plus) Barrel / AgileLite Ring to the connection port on X-Core (Plus).	After getting the ⑤ DC power cable to the ASUS Zenpower and the port of the AgileLite box, you can start using now.
	5	Rotate barrel to make the symbol (on the barrel body) align to the camera accessory shoe. (This step is to set the illumination regions right on the quadrant position)	Rotate the barrel until the symbol align to the camera accessory shoe. (This step is to set the illumination regions right on the quadrant position)

Ring Light / Setting illumination



4X4 Plus Barrel / Light-shielding Ring

While (A) [Channel Switch] is switched to [F], use the Light-shielding Ring may block and to avoid the unwanted noise light (comes from the yellow phosphor on the white LED chip absorbed the blue light) to influence image quality and result.



Note: The blue light excitation yellow phosphor white LED (The mix of blue and yellow light complementary to be high brightness white light,) is the most common type on the market, and our products use this type of white LED.

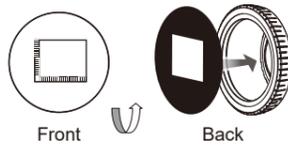
Storage

How to keep X-Loupe® series product

- 1.It is advised to use product in a moisture-free environment and stay away from water or avoid high humidity.
- 2.Keep X-Loupe® series product in the dry environment such as a dry box, and get some desiccants inside the storage case / box.
- 3.If you purchased the optional "X-Loupe® series product specialized carrying case", just put it back into the carrying case after using, and get some desiccants inside if necessary.

4X4 (4X4 Plus) Barrel Positioning and adjusting of the L-Square Ruler

- 1 Remove the plastic film of the L-Square Ruler, and then place it adhere into the groove of the contact ring.

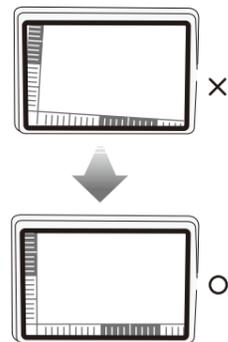


- 2 [L-Square Ruler Sticker] Assist in marking the object size for shooting.

[Disposable Contact Ring]

Have a replacement after contact with surfaces that have been soiled with blood or other body fluid.

- 3 Turn on the camera and Barrel light (lighting setting [F] ; position / full ring; brightness 5), the image will appear on LCD screen as shown below.



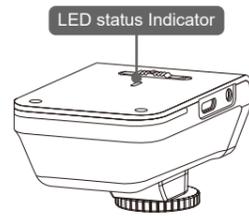
- 4 [Oblique Image Rectification] If the image of L-Square Ruler is slanted, with the right hand to tightly hold the middle part of barrel, (avoid the lighting position varying with the magnetic adapter moving) while with left hand to adjust the contact ring. (as shown above); after that, it can be carried out the shooting of the fingerprint card.

Charging / Troubleshooting

- 1.Before using, confirm that the built-in battery of the control unit is fully charged (1st charge 8 hours ,and subsequent charging around 4 hours).
- 2.Please use the included power cord / power adapter to connect the X-Core (Plus) and the power outlet for charging. The LED status indicator should immediately light up blinking Blue (alternate long and short), then turn into Red: charging is in progress; steady Blue: charging completed.
- 3.If the LED status indicator fails to light up, please check:
 - a).Check the socket. Is the switch not on?
 - b).Press the power button for 10 seconds to reset the software.
 - c).Or other causes affect the power supply to the socket. If necessary, ask the experts to check the socket.
- 4.After charging the battery, remove power adapter from charge inlet.
- 5.Warning: DO NOT USE CHARGER in WET CONDITION.

Basic Trouble shooting

- 1.If the LED is not bright, check the battery power of the control unit.
- 2.The battery is fully charged, but lasts for shorter and shorter time: Lithium-ion battery provides long-lasting battery life, can recharged at any time; but no matter what kind of rechargeable battery, it ultimately need to be replaced.



Precautions

⚠ WARNINGS ⚠

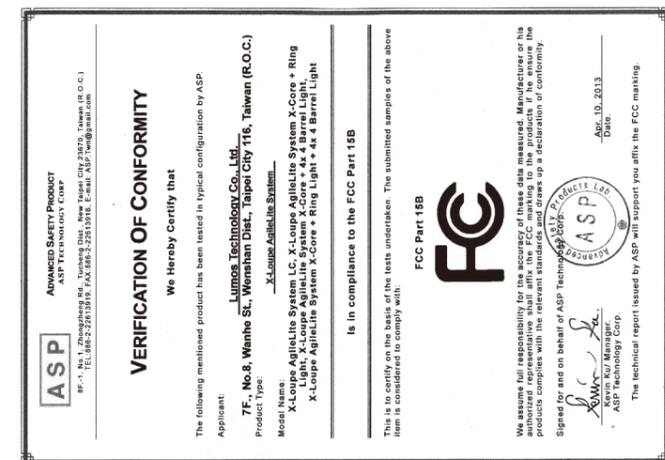
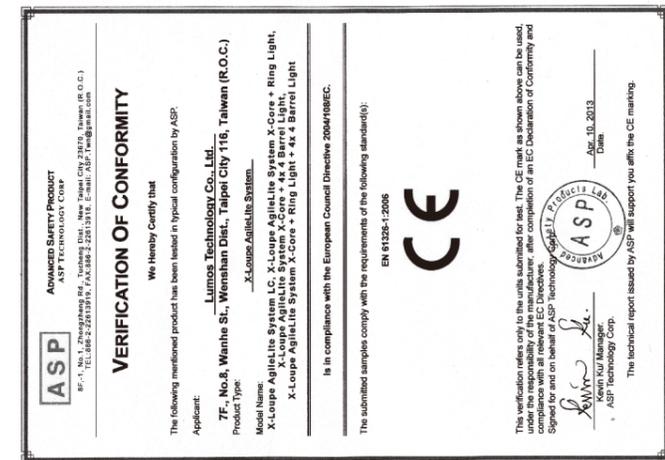
Please ensure that you read and understand the safety precautions before using. To avoid the fire, electric shocks, or result in a body severe injury, please obey the following instructions.

- 1.Keep this equipment out of the reach of children.
- 2.This product equipped high-brightness LEDs. The LED light can be intense enough to injure eyes. For eye safety, DO NOT look directly into the Ring Light / Barrel Light or stare into LED at close range; also DO NOT aim the light at people.
- 3.Keep this equipment away from water or other liquids. The usage for a humid product could result in fire or electric shock. If it happened, immediately turn off the product power, or unplug from the outlet. In case of any liquid droplet on the surface of this product, wipe it out immediately.
- 4.Do NOT leave X-Core (Plus) near the heat source or use in a hot environment, and avoid its exposure to the direct flame or heat.
- 5.Do NOT disassemble, alter or modify to this equipment. Do Not apply pressure to the LEDs of Ring Light / Barrel Light, as this could cause damage or malfunction.
- 6.Do NOT scratch, twist, tie or excessively bend the power cable and power supply cord.
- 7.In case of any contact to the leaked substances from the battery, immediately flush the contacted skin, face, or cloth with large amount of water and ask for medical assistance.
- 8.Do NOT discard this equipment into the trash can. Please recycle when possible.

⚠ CAUTION ⚠

If potential hazards are not eliminated, it may result in body injury, property / financial loss, and the malfunction of the product. The following instructions are also applied to the warning of unsafe operation.

- 1.Avoid strong impacts or shocks of the equipment. Be careful not to bump the barrel, and also not to touch the LEDs.
- 2.Do NOT use, place or store the equipment in a place with strong sunlight or high temperature.



- 3.Avoid using the equipment under the airtight or airless condition; otherwise, it may result in short circuit, overheating, explosion, fire, burns, or other accidents. High temperature could deform the sharp of casing.
- 4.If not using the equipment for a long period of time, store them in a safe place. Improper usage of the battery could make the battery exhausted in a short time.
- 5.Use the included power adapter for charging. Do not charge the battery with other branded power adapter; otherwise, product breakdown, overheating, fire, electric shock, or body injuries might occur.
- 6.Before you move the equipment rapidly from a cold place to a hot place, please place the equipment inside a sealed plastic bag to allow its gradual adaptation with the ambient temperature. As well as avoid the water condensation which cause the mechanical problems. Moving the equipment rapidly from cold to hot temperatures may cause condensation (water droplet) to form in the inside or on the surface of the equipment.

After Reading, Keep the User Guide Handy for Future Reference

★X-Loupe® AgileLite System is protected by the following patents:
(up to 2022/06)

Taiwan Patent No.	1374235 1409569
US Patent No.	US 8,454,200

(For the latest information of products patents, please refer to our website)

★In the interest of continually improving products, Lumos Tech. reserves the right to update or modify information contained in this manual without prior notice.

★Product image of this manual is for reference only and actual product appearance may vary.

★The system only support and to be used with Fujifilm or Canon or Nikon APS-C camera / 60mm macro lens for the best effect.

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In case of any question, please contact your X-Loupe® distributor, or e-mail: contact@lumos.com.tw



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